

## CUDA TRIOPTIC™ LED LIGHTING

*The compact design and mounting flexibility simplify installations.*



Each of our Cuda TriOptic™ light heads unite LumiLeds wide angled LEDs with years of emergency warning know-how.

TriOptic™ takes this high powered LED technology and combines it with superior optics, advanced mechanical as well as electrical design. The combination of these 3 critical components results in superior emergency warning that is safe and reliable.

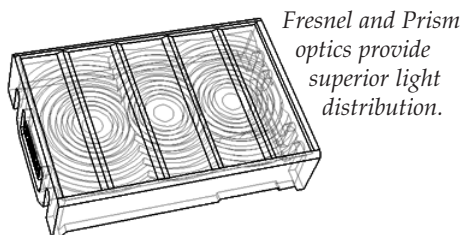
### Superior Light Output

First, we locate our powerful LEDs in a stacked “3-UP” footprint. Our 3-UP LED design enables us to create slim, low profile lighting that is compact and reduces obstruction to the operator.

Next, we improve the raw power of the LumiLed Luxeon™ LED by attaching an optical fixture that incorporates 2 methods of spreading light efficiently. Circular fresnels located closest to the LED distribute the light evenly to produce a full signal that is distinct and powerful from faraway. The prism details on the exterior of the optical fixture refract light to the critical off-axis points. This enables the Cuda TriOptic to deliver attention getting warning straight on as well as off to the side.



Each optical fixture securely snaps on to individual LED modules to ensure that superior output is reproduced all the time, every time.



*Fresnel and Prism optics provide superior light distribution.*

### Easy To Install

Each unit has 4 mounting channels built right into the extruded aluminum housing enabling the universal mounting bracket (included) to attach to the top, bottom or rear. Additional cable exit holes have also been provided so that cabling may exit either side or the rear of the light unit. The slim shape, black housing and cabling make for clean rear deck and rearview mirror installations....but Cudas aren't just for interior mounting! These lights are as rugged as they are attractive. The entire light unit is water resistant and is protected against corrosion. Cuda TriOptic LEDs work great in the front grille area, on push bumpers and on motorcycles. Inside and out the Cuda TriOptic is the choice for flexible mounting and durability.

## QUICK REFERENCE

### FEATURES

- Compact design.
- Extra mounting channels for flexible mounting.
- Includes universal mounting bracket.
- Extra cable exits.
- Water resistant.
- Corrosion proof aluminum housing.
- Each light has 8 different patterns including steady burn.
- No disassembly required for patterns selection.
- Available in Amber, Blue, and Red.
- Includes a 5' power cord.
- Rearview mirror mount and suction cup mount kits available.
- Federal Signal special lens coating provides additional protection from elements as well as UV rays.
- Designed for interior as well as exterior uses.
- Meets SAE standards for output and RFI.

### APPLICATIONS

- Undercover police vehicles
- Supplemental warning for vehicles with roof-mounted lighting systems
- Motorcycle warning light
- Rear deck, Rearview Mirror, Grille and bumper mount

### RELATED PRODUCTS

SmartSiren® Electronic Lights/  
Siren Controller

Bulletin #5113

Dynamax™ Speaker

Bulletin #6102

Intelli-Flash™ (Auxiliary Lighting)  
Flashers

Bulletin #3302

## SIMPLE TO OPERATE

Once installed, select one of eight flash patterns already built into the Cuda TriOptic. Choosing a pattern is easy and does not require any disassembly. Simply apply ground to the green wire to step through each pattern. The next time power is supplied to the light, the light will flash the pattern previously selected.

*Synchronize multiple Cuda TriOptic light heads with our Intelli-Flash™ flasher model 650200.*



The selection of LED technology extends the useful life of an emergency lighting product substantially. Nevertheless, special care needs to be taken when heat is present. Whether it comes from natural sunlight or internal circuitry, excessive heat can reduce the life of LEDs up to 50% and lead to failure. Thermal management is a critical feature with Cuda TriOptic and each unit is designed to dissipate heat efficiently. Our advanced thermal management methods ensure long and useful operation of Cuda TriOptic as well as all of our LED products. For true emergency warning performance select Cuda TriOptic for your lighting needs.

TECHNICAL SPECIFICATIONS	
Volts .....	12.8 VDC
Current Draw	
Amber.....	0.78 amps
Blue.....	1.05 amps
Red.....	0.78 amps
Operating Temperature .....	-30°C to 65°C
<b>Dimensions</b>	
Height.....	1.7 in (4.3 cm)
Length.....	6.0 in (15.2 cm)
Width.....	1.5 in (3.8 cm)
Shipping Weight.....	0.7 lbs. (0.3 kg)
<b>Approvals</b>	
• SAE 595 Light Output	
• SAE 1113/41 Radio Frequency Interference	
• CAC Title 13, Article 22	
• FCC Part 15	

## How To ORDER

- Specify Cuda TriOptic model desired.
  - 351012-02** Single head, amber. Includes universal mounting bracket and a 5' cable
  - 351012-03** Single head, blue. Includes universal mounting bracket and a 5' cable
  - 351012-04** Single head, red. Includes universal mounting bracket and a 5' cable
- Order optional equipment (if necessary).
  - 350201** Rear-view mirror mount for 2000-02 Ford Crown Victoria
  - 350202** Rear-view mirror mount for 2000-02 Chevy Impala
  - 350203** Suction cup mounting kit with cigarette lighter plug.
  - 650200** Intelli-Flash remote flasher, (2) 6-amp loads, 8 patterns, 2 modes of operation, 12-24 VDC

## FLASH PATTERNS

- Setting 1 .....Solid Steady On
- Setting 2 .....120 flashes per minute
- Setting 3 .....165 flashes per minute
- Setting 4 .....240 flashes per minute
- Setting 5 .....300 flashes per minute
- Setting 6 .....Combo 1:
  - 4 @ 120 FPM
  - 10 @ 300 FPM
- Setting 7 .....Combo 2:
  - 2 @ 120 FPM
  - 3 @ 165 FPM
  - 6 @ 240 FPM
  - 3 @ 165 FPM
  - 2 @ 120 FPM
  - 10 @ 300 FPM
- Setting 8 .....Combo 3:
  - 1 @ 120 FPM - Inactive
  - 2 @ 120 FPM
  - 6 @ 240 FPM
  - 14 @ 480 FPM
  - 6 @ 240 FPM
  - 2 @ 120 FPM
  - 1 @ 120 FPM - Inactive